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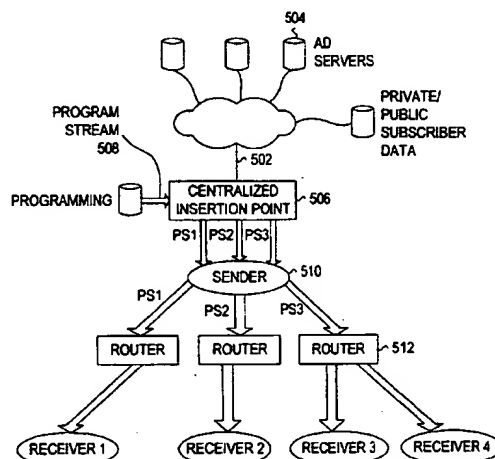
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(54) Title: **ADVERTISEMENT SUBGROUPS FOR DIGITAL STREAMS**



(57) Abstract: A targeted advertising system based on subgroups. Different subgroups are formed based on one or more subscriber characteristics, and different targeted advertisements transmitted to the different subgroups. In the Internet-environment, the subgroups are formed by utilizing multicast addresses. In cable-based and satellite-based systems, the subgroups are formed by node configurations. The targeted advertisements (504) may be transmitted simultaneously with programming (508) and inserted locally, or may be inserted at a centralized distribution point (506) such as a router or cable television local head-end. An apparatus is presented which receives n program streams and m advertisements, and creates p presentation streams containing targeted advertisements, where p is greater than n .



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N 7/16

US CL : 345/327; 348/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/327; 348/6-13; 455/3.1-6.3; H04N 7/16, 7/173

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 5,815,671 A (MORRISON) 29 September 1998 abstract, columns 2-3 & figures 2-4	1-33 ----- 34-37
X -- Y	US 5,446,919 A (WILKINS) 29 August 1995 whole document	1-33 ----- 34-37
X	US 5,155,591 A (WACHOB) 13 October 1992 whole document	34

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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O document referring to an oral disclosure, use, exhibition or other means	
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